

Date: Thu, 20 May 93 09:36:25 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #611
To: Info-Hams

Info-Hams Digest Thu, 20 May 93 Volume 93 : Issue 611

Today's Topics:

2 Meters and Airlines
3rd Party Vendors of HT batteries
Alinco DJ580 Gets HOT!!!
Anyone going to Ham com 93 in Dallas?
HTX-202 going on sale
ICOM IC2SAT
Intermod/spurious sigs a common HT problem?
Itinerant radio license
MFJ HF Vertical Antenna
need "n.f" for NEC-2 C version (was: Re: MININEC)
need info for connecting HTX 202 to TNC
QSL info need for Pitcairn Island
Quad vs Yagi
Radio Shack 70cm HT? (2 msgs)
REAL Mods for the HTX-202
Recipe for Syntor Frequency PROM

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Thu, 20 May 1993 12:33:45 GMT
From: usc!howland.reston.ans.net!usenet.ins.cwru.edu!magnus.acs.ohio-state.edu!
math.ohio-state.edu!zaphod.mps.ohio-state.edu!cs.utexas.edu!csc.ti.com!
tilde.csc.ti.com!fstop.csc.ti.com!sbrown
Subject: 2 Meters and Airlines
To: info-hams@ucsd.edu

In article <1993May19.190243.7277@wkuvx1.bitnet> scottcr@wkuvx1.bitnet writes:

> In article <9305191754.AA00648@ucsd.edu>, ST1860@SIUCVMB.SIU.EDU (Gary R. Smith KE9MI) writes:

> > Hi-

> > I am getting ready to take a rather long trip by air and I was wondering if anybody knew what the regulations were for operating a 2 meter rig aboard an commercial airplane.

> >

> > I have heard 2 conflicting reports...First, I have heard it down right illegal to do so. The other was it's okay if the pilot says it alright...

> > Does anybody know the right answer?? I would appreciate it....

> >

> >

Thanx....Gary KE9MI

> > Internet: ST1860@SIUCVMB.SIU.EDU

> > BITNET: ST1860@siucvmb.bitnet

>

> As an amateur and a pilot, let me reinforce: Yes, it is illegal, unless specifically authorized by the pilot.

>

> SCOTTCR@WKUVX1.BITNET aka Chris Scott- C/E Public Radio- Western KY U

> Telco: (502) 745-3834 Hm & Fax: (502) 781-1232

I'll put my two cents worth in. Unless the rules have changed drastically since my last exposure to them (circa 1976), both answers are correct: it's illegal and the pilot can give you permission.

I believe the way it works is it's illegal but the pilot is the commander of the aircraft and has the ultimate responsibility for the safety of the passengers, etc. If the pilot chooses to overlook the regulation which says you can't use your two meter rig (or any other electronic device) in his plane, then he can do so.

I'd recommend that you don't use your 2M gear on the plane.

```
*****
| Steve Brown, WD5HCY          | Simpligate |
| sbrown@charon.dseg.ti.com    | and add  |
| wd5hcy@kf5mg.#dfw.tx.usa.na | lightness. |
*****
```

Date: 20 May 1993 13:22:14 GMT

From: usc!howland.reston.ans.net!darwin.sura.net!haven.umd.edu!cville-srv.wam.umd.edu!ham@network.UCSD.EDU

Subject: 3rd Party Vendors of HT batteries

To: info-hams@ucsd.edu

>I would like to extend this question. What about recommendations for
>3rd party vendors of battery packs in general?

I have had good luck on some TR-2500 battery inserts that I bought mail-order from W&W Associates in Queens, NY, NY. Decent prices, and quick service, and the merchandise isn't too bad, either.

Scott NF3I

--

73,

 \ / Long
Scott Rosenfeld Amateur Radio NF3I Burtonsville, MD | Live

WAC CW/SSB WAS 84% of the way to DXCC -----| Dipoles!

Date: Thu, 20 May 1993 13:33:35 GMT
From: pa.dec.com!nntpd2.cxo.dec.com!nntpd.lkg.dec.com!westrn.enet.dec.com!
potter@decwrl.dec.com
Subject: Alinco DJ580 Gets HOT!!!
To: info-hams@ucsd.edu

Mine does the same.

I worry that the instruction manual does not say how long it is allowed to stay on 12V high-power Tx.

Recently, my TNC crashed in transmit mode and the HT must have spent at least ten minutes transmitting. It was a long time (>10 min) before I could touch it again. But it seems to have had no ill effects.

regards,
/Alan

Date: Thu, 20 May 1993 14:30:53 GMT
From: usc!cs.utexas.edu!csc.ti.com!tilde.csc.ti.com!mksol!mmrsrv!
craigs@network.UCSD.EDU
Subject: Anyone going to Ham com 93 in Dallas?
To: info-hams@ucsd.edu

I'll be there for the duration. When not roaming the flea market, I'll be manning the registration booth with the rest of the gang from the Plano Amateur Radio

Klub.

-Craig Young, KA5BOU

When in Plano, 147.18+, 444.25+

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-----
Craig S. Young                                Email: craigs@lobby.ti.com
Texas Instruments Incorporated                 Phone: (214) 952-4616
2501 W. University
McKinney, TX 75070                           "I speak only for me, not TI"
-----
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Date: 20 May 93 10:19:12
From: usc!zaphod.mps.ohio-state.edu!rphroy!link.ph.gmr.com!
vbreault@network.UCSD.EDU
Subject: HTX-202 going on sale
To: info-hams@ucsd.edu
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In article <wa2iseC7B8K5.Fv7@netcom.com> wa2ise@netcom.com (Robert Casey) writes:
<stuff deleted>

Also got the extended warrenty (5 years, \$40).

That would be the "Tandy Service Plan". It's the best \$40 you'll spend.
I wish I had something like that when I accidentally dropped my two week
old, top-o-the-line \$500 icom and snapped off a battery rail. I said it
was a design defect but icom said it was abuse and that it wasn't covered.
A replacement battery for the icom cost half again as much as that TSP.
(In all fairness, after a phone call two letters and several months time,
icom agreed to replace the battery "this time only".)

```
--
Val Breault - N80EF - vbreault@gmr.com    \      /|
Instrumentation dept  GM NAO R&D Center    \    / |
My opinions are not necessarily those of   \  /__|
GMR nor of the General Motors Corporation  \/  |___
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-----
Date: 20 May 1993 14:52:02 GMT
From: usc!howland.reston.ans.net!europa.eng.gtefsd.com!slc20!
wwhitby@network.UCSD.EDU
Subject: ICOM IC2SAT
To: info-hams@ucsd.edu
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Does anyone out there have any experience with the ICOM IC2SSAT 2m HT? Please e-mail me or post to the group any responses, good or bad, that you have.

Thanks and 73

Warren Whitby

Date: 20 May 93 10:37:40
From: usc!zaphod.mps.ohio-state.edu!rphroy!link.ph.gmr.com!
vbreaault@network.UCSD.EDU
Subject: Intermod/spurious sigs a common HT problem?
To: info-hams@ucsd.edu

In article <1993May20.075612.23389@ke4zv.uucp> gary@ke4zv.uucp (Gary Coffman) writes:

<stuff deleted>

My advice to beginners: GET A REAL RADIO. A HT on your belt isn't a do all device. It's a specialized tool only suited for certain restricted uses. For 99% of amateur use, a good mobile rig is a better deal.

I disagree....

But first, I'll agree....

An HT makes a poor base unit and an even poorer mobile unit. It will suffer from overload, intermod and the rigors of that kind of service. I have first hand experience here.... I've been using my HT as a mobile radio for about a year and a half. I've just bought a real mobile radio and can't wait to install it. If for no other reason than the convenience of being able to use it without having to plug it in to the power, antenna speaker and microphone. Gary is correct.... an HT makes a lousy mobile.

However...

If one were to be able to get only *one* radio then I would advise that person to get an HT. Even though it is a poor performer in those other services, it WILL perform. That is to say, you can use an HT for a mobile, but you can't use a mobile for an HT. Likewise, an HT may make a poor packet radio, but a 'real' packet radio is pretty useless on a walk around the block.

I know, from sales figures, that no one is going to pay attention to this advice. But when you can't reliably hit the repeater, and when the howling intermod drives you mad, remember that I TOLD YOU SO.

Gary

Point noted.

--

Val Breault - N80EF - vbreault@gmr.com \ /|
Instrumentation dept GM NAO R&D Center \ /|
My opinions are not necessarily those of \ /--|
GMR nor of the General Motors Corporation \ / |___

Date: Thu, 20 May 1993 06:09:19 GMT
From: usc!elroy.jpl.nasa.gov!sdd.hp.com!ux1.cso.uiuc.edu!howland.reston.ans.net!
wupost!gumby!destroyer!cs.ubc.ca!unixg.ubc.ca!kakwa.ucla.alberta.ca!alberta!
adec23!ve6mgs!usenet@network.UCSD.
Subject: Itinerant radio license
To: info-hams@ucsd.edu

I have a couple of Motorola VHF HT's that I want to use for miscellaneous business purposes. It is my understanding that there are "itinerant" frequencys that are availble for this type of service. I have a few questions regarding this:

- How does one get an itinerant license? (I know Radio Shack has a form included with their "commercial" VHF HT's. How do you get this form if you already have the radio equipment.)
- How much does the license cost? How long is it good for?
- If I hold a license, does a second person who uses one of my radios to talk to me also need a license?
- What are the conditions/limitations of the itinerant radio service?
- What frequencys are availble for itinerant service. The only one I know is 151.625 MHz. Also I have heard of color "dot" frequenys. Is there any significance to this?

Please e-mail or post your responses.

Thor Rasmussen
N6FNP

Date: Thu, 20 May 1993 12:57:54 GMT

From: usc!howland.reston.ans.net!newsserver.jvnc.net!yale.edu!news.yale.edu!
hilbert.chem.yale.edu!oswood@network.UCSD.EDU
Subject: MFJ HF Vertical Antenna
To: info-hams@ucsd.edu

In article <1teiqt\$446@pith.uoregon.edu>, jeffh@ludwig.cc.uoregon.edu (Jeff Hite) writes:

|> All the reports I hear about these MFJ antennas are "not being distributed yet"
|> Both the vertical and the loop...whats the deal?? Why advertise a product
|> months before "distribution" (...)

They probably advertise things before they are ready in order to limit the sales of competing merchandise. If you are about ready to go buy an antenna by AEA or Cushcraft when you see a seemingly comparable MFJ antenna for \$50 less, then you may well wait to buy that. This is why MFJ will tell you that the antenna is available 'soon'. If they had waited to advertise until the product was ready or even told potential customers about the long wait, they would have lost hundreds of potential customers who would have bought other antennas. They seem to have learned this technique from Apple computer marketing of Macintosh models, by the way (announce a popular product six months before it is available in quantity).

Mark C. Oswood N1NXW/AA oswood@psun.chem.yale.edu
 or moswood@biomed.bitnet

Date: Thu, 20 May 1993 15:24:46 GMT
From: dog.ee.lbl.gov!overload.lbl.gov!agate!headwall.Stanford.EDU!Csl!
kawai@network.UCSD.EDU
Subject: need "n.f" for NEC-2 C version (was: Re: MININEC)
To: info-hams@ucsd.edu

Dear all

I ftp-ed the C version of NEC-2 ("nec2.in.c.tar.Z") from ucsd.edu. "Make" fails because it cannot find a file called "n.f". Does anybody have a copy, or a fix the program? I would greatly appreciate any help.

-goh-

----- Speech Research Program, SRI, Menlo Park, CA 94025-3493 USA
--- Goh Kawai --- work:(415)859-2231 fax:(415)859-5984 home:(415)323-7214
----- internet: kawai@speech.sri.com radio: n6uok and 711fqe

Date: Wed, 19 May 1993 16:07:09 GMT

From: pacbell.com!att-out!cbnews!dara@network.UCSD.EDU
Subject: need info for connecting HTX 202 to TNC
To: info-hams@ucsd.edu

I want to connect a RS HTX 202 to a tnc for packet use. Would someone who uses one tell me the correct resistor/capacitor values. I have a cable which has .1 ufd from the audio line to the plug tip and 3.9 k ohm from ptt also to the plug tip. The plug is mono, no ring. Sleeve is ground. That is the ICOM hookup and it does not key the HTX 202. Should I be using a different resistor? (eg 2.2k)
I could experiment with resistors and find out what works but everyone has been saying it's the same as ICOM.
tnx Shel dara@physics.att.com
.

Date: 20 May 1993 14:19:40 GMT
From: usc!cs.utexas.edu!tamsun.tamu.edu!TAYLOR.TAMU.EDU!gtaylor@network.UCSD.EDU
Subject: QSL info need for Pitcairn Island
To: info-hams@ucsd.edu

In article <C7A845.2Dy@cbnewsj.cb.att.com> tec@cbnewsj.cb.att.com (Tom Clark) writes:

>Does anyone know how to go about getting a card? Any hope of finding
>a stateside manager?

I show JF2K0Z, 73 Greg
Greg Taylor, KD4HZ // g-taylor4@tamu.edu // 409-845-4445 // Fax-847-8744

Date: Thu, 20 May 1993 08:48:52 GMT
From: dog.ee.lbl.gov!overload.lbl.gov!agate!howland.reston.ans.net!gatech!wa4mei!ke4zv!gary@network.UCSD.EDU
Subject: Quad vs Yagi
To: info-hams@ucsd.edu

In article <9305191456.AA19576@sparc4.IC0.OLIVETTI.COM> fax@sparc4@Olivetti.COM (Marco Fassiotto) writes:

>I'm considering to buy a beam and some days ago I had the chance to take a
>look to a Cubex Quad (mod. MK5-PTD3 five bands/3 el) antenna tech specs.
>Actually, since I always thought to buy a yagi, I never took under serious
>consideration a quad and I was pretty amazed by the on-the-paper performance.
>Infacts, its gain is rated 11-13 dbISO, F/B 35-40 db and a very low
>rotating radius (and that's just great for my QTH).
>I'm wondering if any of you guys out there can give me any advice on this ant

>or, more generally, whether quads work better than yagis under any condition
>or there is a trade off like more weakness to the wind, etc. etc.

Quads can perform well. After we derate the unrealistic gain figure for the antenna you describe, subtract 2.15 db to get gain over a dipole in free space, we more closely approach reality. A 3 el yagi will have a gain of about 7dbd while this beast is claiming 8.85-11.85 dbd. That still sounds somewhat optimistic. And the F/B claim of 35-40 also sounds optimistic. More likely is the range of 20-25 db. Still, that's not bad.

>I would also appreciate any comment/suggestion on other makes, or even
>any kind of ant that can rotate with radius of about 4 meters with a
>good gain. Height is not a problem since the tower can be almost as high
>as I want with a minimum of pain.

Five bands from a 4 meter boom sounds highly optimistic. With such close spacing, I'd expect the gain and F/B ratio to be less than the stated claim. Note that quads are somewhat less sensitive to Faraday rotation caused cross polarization losses. This can give *apparent* gain increases out of proportion to their calculated gain figures. Their capture area is also often slightly better than a yagi of the same boom spacing, and they tend to be slightly quieter due to a lack of corona points. All this adds up to the conclusion that quads work better than their paper calculations would indicate. So sometimes the manufacturers fudge their numbers a bit.

You're not going to get the performance you'd get with optimum spaced long boom single band stacked yagis, but the performance shouldn't be horrible either. Having the antenna high is a big win, of course. The quad won't be as mechanically reliable as a yagi, though, and climbing that high tower to repair it may be a nuisance.

Gary

--

Gary Coffman KE4ZV		You make it,		gatech!wa4mei!ke4zv!gary
Destructive Testing Systems		we break it.		uunet!rsiatl!ke4zv!gary
534 Shannon Way		Guaranteed!		emory!kd4nc!ke4zv!gary
Lawrenceville, GA 30244				

Date: Thu, 20 May 1993 08:57:37 GMT
From: usc!howland.reston.ans.net!gatech!wa4mei!ke4zv!gary@network.UCSD.EDU
Subject: Radio Shack 70cm HT?
To: info-hams@ucsd.edu

In article <930518.224343.5e4.rusnews.w165w@garlic.sbs.com> system@garlic.sbs.com
(Tony Pelliccio) writes:

>

>The problem is, alot of Radio Shacks will sell to anyone. And that's
>what caused the demise of 2m in certain areas of the country.

Nonsense. All major ham radio dealers will sell to anyone. Sears used to carry amateur gear back before the service went into it's incentive licensing decline. That didn't harm amateur radio. Lafayette, Olsen, Allied, and others used to sell to the public without harm. They quit when the service stagnated after 1968. Sears tried a 2 meter rig just before the no code license, but also dropped it because of lack of sales. Now sales are up as our numbers start to grow again, and mass marketers are returning to the fold. My hat's off to RS for taking such bold steps into such a volatile market.

Gary

--

Gary Coffman KE4ZV		You make it,		gatech!wa4mei!ke4zv!gary
Destructive Testing Systems		we break it.		uunet!rsiatl!ke4zv!gary
534 Shannon Way		Guaranteed!		emory!kd4nc!ke4zv!gary
Lawrenceville, GA 30244				

Date: 20 May 93 13:00:50 GMT
From: news-mail-gateway@ucsd.edu
Subject: Radio Shack 70cm HT?
To: info-hams@ucsd.edu

>The problem is, alot of Radio Shacks will sell to anyone. And that's
>what caused the demise of 2m in certain areas of the country.
>
>Tony

and so will all the "ham" stores, so will all the ham stores....all you gotta do is call 'em up with a credit card and the item will be delivered to your door - federal express if you need it tomorrow.

of course, we have a high density of hams working at radio shack and supply them with professional quality stuff they can give their customers to raise their awareness of amateur radio. Exam schedules, repeater frequency lists, how to watch ATV on your home TV with nothing more exotic than a outdoor TV antenna....

Another positive, pro-active action from the Subversive Radio Network.
Duty Now for the Future of Amateur Radio!

bill wb9ivr.

Date: 20 May 93 10:44:40 EST
From: titan.ksc.nasa.gov!k4dii.ksc.nasa.gov!user@ames.arpa
Subject: REAL Mods for the HTX-202
To: info-hams@ucsd.edu

No, this isn't an "April First" posting!

You must have noticed that the same basic question, "how do you mod the HTX-202", appears on the net, 3 or 4 times a week. Apparently the HTX-202 was designed to offer high performance for a low price, and to NOT be modifiable for out-of-band operation. (There is at least one such mod that is absolutely bogus, referencing parts that do not exist!) That doesn't mean there can't be other, more practical, enhancements to the radio. This posting is intended to be the first contribution towards a pool of "mods" for the HTX-202. While it isn't a true modification, I believe it will be of value to HTX-202 owners.

The only weak area I'm aware of, is the battery pack. To get the maximum power from the radio, you must operate it from a cord connected to a separate 13.8 volt power source.

It turns out that the HTX-202 is compatible with Icom battery packs for the old IC-2AT. Some of these packs are available at a higher voltage, and can be rapid-charged from the Icom BC-35 charger. I suggest you get information about this from either Icom dealers, or from battery manufacturers who offer less expensive packs. If someone would research specific battery model numbers, and the resulting radio output power, the information would be a good follow-up posting.

In the event that your original battery pack goes bad, I found one company that offers a refill for it:

HTX-202 Insert \$15
7.2 Volt 600 mAH

E. H. Yost & Company
7344 Tetiva Road
Sauk City, Wisconsin 53583
Telephone (608)643-3194
FAX (608)643-4439

This company may also have the higher voltage battery packs.

73, Fred, K4DII

fred-mckenzie@ksc.nasa.gov

Date: 17 May 93 17:57:07 GMT
From: mcdhup!inferno!larryr@RUTGERS.EDU
Subject: Recipe for Syntor Frequency PROM
To: info-hams@ucsd.edu

I bought a Motorola Sytor commercial mobile transceiver that I'd like to migrate to the ham band (UHF). I have the manual, but what I am looking for is the layout of the data information in the frequency EPROM. I suppose I can try to hack at it myself, but if anyone has already done it, it sure would be helpful. The goal is to be able to zap a PROM in a promburner instead of having to go to a Motorola dealer to have it done on their tool.

Please reply by email to 74066.2004@compuserve.com instead of the address on this message's header.

Thanks in advance,

Larry Rachman, WA2BUX

Date: Thu, 20 May 1993 10:57:43 GMT
From: anomaly.sbs.com!kd1hz@uunet.uu.net
To: info-hams@ucsd.edu

References <VBREAULT.93May19163213@rinhp750.gmr.com>,
<1te75b\$qs3@europa.eng.gtefsd.com>, <VBREAULT.93May19174647@rinhp750.gmr.com>
Subject : Re: Radio Shack 70cm HT?

vbreault@rinhp750.gmr.com (Val Breault) writes:

>Their training manual makes a strong implication that a salesperson
>could be somehow breaking the law by selling amateur equipment to
>non licensed people. The correct answer on the test form is to
>refuse to sell it.

Uh, would you kindly provide the appropriate statute which specifically states that vendors may not sell amateur gear to non-licensed amateurs.

To the best of my knowledge it is perfectly legal to sell whatever you

want to whomever you want, regardless of licensed status. In fact, even the "big boys" like HRO routinely sell merchandise to me, even though I've refused to provide a callsign (I get enough junk mail thank you) when I've ordered.

Therefore, the correct answer on the test form is to sell it.

MD

```
--  
-- Michael P. Deignan, KD1HZ / Since I *OWN* SBS.COM,  
-- Domain: kd1hz@anomaly.sbs.risc.net / these opinions generally  
-- UUCP: ...!uunet!anomaly!kd1hz / reflect those of my  
-- Telebit: +1 401 455 0347 / company...
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End of Info-Hams Digest V93 #611
